R-85B-R1VB



2-port sector antenna, 2x 694–960 MHz, 85° HPBW, 1x RET

• Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

Antenna Type Sector

Band Single band

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

 Performance Note
 Outdoor usage

 Radome Material
 PVC, UV resistant

Radiator Material Aluminum
Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 0
RF Connector Quantity, mid band 0
RF Connector Quantity, low band 2
RF Connector Quantity, total 2

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc
Internal RET Low band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)



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Dimensions

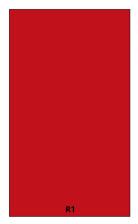
 Width
 320 mm | 12.598 in

 Depth
 166 mm | 6.535 in

 Length
 1980 mm | 77.953 in

Net Weight, antenna only 14.6 kg | 32.187 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	85°	1	AISG1	CPxxxxxxxxxxxxxxR1

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	400 W

Electrical Specifications

	R1	R1	R1
Frequency Band, MHz	698-806	790-894	890-960
RF Port	1,2	1,2	1,2
Gain, dBi	14.8	15.3	15.3
Beamwidth, Horizontal, degrees	82	79	76
Beamwidth, Vertical, degrees	12.1	11	10.3
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	16	18	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	23	25	26
Isolation, Cross Polarization, dB	25	25	25

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VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	200	200	200

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 831.0 N @ 150 km/h (186.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 910.0 N @ 150 km/h (204.6 lbf @ 150 km/h)

Wind Speed, maximum 200 km/h (124 mph)

Packaging and Weights

 Width, packed
 450 mm | 17.717 in

 Depth, packed
 280 mm | 11.024 in

 Length, packed
 2275 mm | 89.567 in

 Weight, gross
 26.2 kg | 57.761 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

BSAMNT-B98-01 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



BSAMNT-B98-01



Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net5.48 kg | 12.081 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 5.8 kg | 12.787 lb

Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

CE

